

Safety Data Sheet

LHHT 250

Replaces date: 26/05/2025

Revision date: 05/08/2025

Version: 1.4.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: LHHT 250

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Lubricant.

Inadvisable uses: None.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: SKF UK Ltd
Address: 400 Capability Green
Zip code: LU1 3LU
City: Luton
Country: UNITED KINGDOM
Email: technical.helpdesk.uk@skf.com
Phone: +44 1582 490049
Homepage: www.skf.com

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Aquatic Chronic 3;H412

Most serious harmful effects: Harmful to aquatic life with long lasting effects. May cause slight irritation to the skin and eyes.

2.2. Label elements

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

Supplemental information

EUH208 Contains 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin. May produce an allergic reaction.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

Endocrine disrupting properties: None known.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ UK-REACH Reg. No.	Concentration	Notes	CLP-classification
O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate	126019-82-7 406-940-1	2.5 -< 5 %		Aquatic Chronic 2;H411
N - [(1,1,3,3-tetramethylbutyl) phenyl] naphthalen-1-amine	51772-35-1 257-406-8	1 -< 2.5 %		Aquatic Chronic 4;H413
4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin	10081-67-1 233-215-5	0.25 -< 1 %		Skin Sens. 1;H317 Aquatic Chronic 4;H413
Oleoylsarcosine	110-25-8 203-749-3	0.25 -< 1 %		Skin Irrit. 2;H315 Eye Dam. 1;H318 Acute Tox. 4;H332 Aquatic Acute 1;H400 Aquatic Chronic 3;H412 ATE (vapours) (Acute toxicity - inhalation): 11 mg/l ATE (dust/mist) (Acute toxicity - inhalation): 1.37 mg/l

Please see section 16 for the full text of H- / EUH-phrases.

Ingredient comments: The mineral oils in the product contain <3% DMSO extract(IP 346).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
Skin contact:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
General:	When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

May cause slight irritation to the skin and eyes. The product contains small amounts of 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin. Persons with a known allergy may exhibit an allergic response to the product.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited

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stock.

Unsuitable extinguishing media:

Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Not flammable, but combustible. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Sulphur oxides.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Wear safety goggles if there is a risk of eye splash. Wear gloves.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

To be stored safely out of reach of children and not together with food, feed, medicine and the like. Keep in tightly closed original packaging. Do not store with the following: Oxidisers.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements.

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

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Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020. Control of Lead at Work Regulations 2002. Control of Asbestos Regulations 2012.

DNEL - workers

O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate, cas-no 126019-82-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	11,75 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	33,3 mg/kg bw/day				
N - [(1,1,3,3-tetramethylbutyl) phenyl] naphthalen-1-amine, cas-no 51772-35-1					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	11,75 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	3.3 mg/kg bw/day				
4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin, cas-no 10081-67-1					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	7,05 mg/m ³				
Inhalation DNEL (acute/short-term exposure - local effects)	280 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	1 mg/kg bw/day				
Oleoylsarcosine, cas-no 110-25-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	0,8 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	20 mg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls:

Wear the personal protective equipment specified below. Use the product under well-ventilated conditions.

Personal protective equipment, eye/face protection:

Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 16321.

Personal protective equipment, hand protection:

In the event of direct skin contact, wear protective gloves: Type of material and thickness: Nitrile rubber/ > 1 mm. Penetration time: > 60 min. Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration

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of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Not required.

In case of spraying/formation of spraying mists: Wear respiratory protective equipment. Filter type: P. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Amber
Odour	Characteristic
Solubility	Not miscible with the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	No data	
Flammability	No data	
Flammability limits	No data	
Lower and upper explosion limit	No data	
Flash Point	≥ 250 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	225 - 275 mm ² /s	(40 °C)
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	0.935 - 0.945 g/cm ³	(15 °C)
relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

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Reacts with the following: Oxidisers.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Oxidisers.

10.6. Hazardous decomposition products

None, if stored at the recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral: Ingestion may cause discomfort. The product does not have to be classified. Test data are not available.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation

Oleoylsarcosine, cas-no 110-25-8

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (vapours)	4 h	11 mg/l			
	ATE (dust/mist)	4 h	1.37 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: May cause slight irritation. The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation: May cause eye irritation. The product does not have to be classified. Test data are not available.

Respiratory sensitisation or skin sensitisation: The product contains small amounts of 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin. Persons with a known allergy may exhibit an allergic response to the product. The product does not have to be classified. Test data are not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: The product does not have to be classified. Test data are not available.

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Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate, cas-no 126019-82-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		2 %			ECHA

N - [(1,1,3,3-tetramethylbutyl) phenyl] naphthalen-1-amine, cas-no 51772-35-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		0 %			ECHA

4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin, cas-no 10081-67-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		29 %			ECHA

Oleoylsarcosine, cas-no 110-25-8

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		85.2 %			ECHA

The product contains at least one readily biodegradable substance.

Not expected to be biodegradable.

12.3. Bioaccumulative potential

O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate, cas-no 126019-82-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	20			

N - [(1,1,3,3-tetramethylbutyl) phenyl] naphthalen-1-amine, cas-no 51772-35-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	> 6			

4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin, cas-no 10081-67-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	> 3			

Oleoylsarcosine, cas-no 110-25-8

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	3.5 - 4.2			

Bioaccumulation can be expected.

12.4. Mobility in soil

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Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

German water pollution classification (WGK): 2

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste: EWC code: Depends on line of business and use, for instance 13 02 08* other engine, gear and lubricating oils

Absorbent/cloth contaminated with the product: EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

SECTION 14: Transport information

<p>14.1. UN number or ID number: Not applicable.</p> <p>14.2. UN proper shipping name: Not applicable.</p> <p>14.3. Transport hazard class(es): Not applicable.</p>	<p>14.4. Packing group: Not applicable.</p> <p>14.5. Environmental hazards: Not applicable.</p>
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14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other Information: The product is not covered by the rules for transport of dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Special Provisions: None.

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15.2. Chemical Safety Assessment

UK-REACH Reg. No.	Substance name
	O,O,O-tris(2(or 4)-C9-10-isoalkylphenyl) phosphorothioate
	N - [(1,1,3,3-tetramethylbutyl) phenyl] naphthalen-1-amine
	4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin
	Oleoylsarcosine

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.4.0	05/08/2025	SRU	1,8,16

Abbreviations:

PBT: Persistent, Bioaccumulative and Toxic
 vPvB: Very Persistent and Very Bioaccumulative
 STOT: Specific Target Organ Toxicity
 DNEL: Derived No Effect Level

Other Information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method:

Calculation based on the hazards of the known components.

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Supplemental hazard information

EUH208 Contains 4-(1-methyl-1-phenylethyl)-N-[4-(1-methyl-1-phenylethyl)phenyl]anilin. May produce an allergic reaction.

Country:

GB